

WHAT IS CLAIMED IS:

1. An electronic control unit for car comprising:

a battery power source;

an ignition switch; and

5 a power source IC for supplying a constant voltage (VCC) to said electronic control unit including a central processing unit when said ignition switch is turned on and for interrupting said supply of said constant voltage when said ignition switch is turned off;

10 characterized by comprising a delay circuit for delaying said OFF signal by a predetermined time when said ignition switch is turned off;

wherein said supply of said constant voltage to said electronic control unit from said power source IC is interrupted 15 by an output signal of said delay circuit.

2. An electronic control unit for car comprising:

a battery power source;

an ignition switch; and

20 a power source IC for supplying a constant voltage (VCC) to said electronic control unit including a central processing unit when said ignition switch is turned on and for interrupting said supply of said constant voltage when said ignition switch is turned off;

characterized by comprising:

25 a delay circuit for delaying said OFF signal by a predetermined time when said ignition switch is turned off, and

an AND circuit inputting an output signal of said delay circuit, and inputting a constant voltage (VCC) supply interruption signal generated by said central processing unit after a lapse of a predetermined time when said central processing unit detects interruption of said power supply from said battery;

wherein said supply of said constant voltage to said electronic control unit from said power source IC is interrupted by an output signal of said AND circuit.

10 3. An electronic control unit for car according to Claim 2, wherein said delay time of said delay circuit is set at a delay time longer than said time required for stop initialization of said central processing unit.

15 4. An electronic control unit for car according to Claim 1, wherein said delay circuit is a delay circuit constituted by a resistor, a capacitor, and a diode and by selecting constants thereof, said delay time is set.

5. An electronic control unit for car according to Claim 1, wherein said delay circuit is constituted by a counter.

20 6. An electronic control unit for car according to Claim 2, wherein said central processing unit detects interruption of said power supply from said battery, inputs said constant voltage (VCC) supply interruption signal generated by itself after a lapse of said predetermined time required for stop initialization thereof to a digital input port or an analog input port thereof, and monitors a state of supply or

interruption of said constant voltage by itself.

7. An electronic control unit for car according to Claim 2, wherein said central processing unit detects interruption of said power supply from said battery, and an AND circuit of said 5 constant voltage (VCC) supply interruption signal generated by said central processing unit after a lapse of said predetermined time required for stop initialization thereof, of said output signal from said delay circuit, and of another port signal of said central processing unit is installed, and by an output 10 signal of said AND circuit, said supply of said constant voltage is interrupted.

8. An electronic control unit for car comprising:

a battery power source;

an ignition switch; and

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15 a power source IC for supplying a constant voltage (VCC) to said electronic control unit including a central processing unit when said ignition switch is turned on and for interrupting said supply of said constant voltage when said ignition switch is turned off;

20 characterized by comprising:

a delay circuit for delaying said OFF signal by a predetermined time when said ignition switch is turned off;

a switching means installed for output of said delay circuit; and

25 a switching means installed for a constant voltage (VCC) supply interruption signal generated by said central processing

unit after a lapse of a predetermined time when said central processing unit detects interruption of said power supply from said battery;

5       wherein said supply of said constant voltage to said electronic control unit is interrupted by responding to the both output signals of said two switching means.

9. An electronic control unit for car according to Claim 8, wherein for either of said constant voltage (VCC) supply interruption signal generated by said central processing unit and an output signal of said delay circuit for, when said ignition switch is turned off, delaying said OFF signal by a predetermined time, switching means is installed.

10      15     10. An electronic control unit for car according to Claim 8, wherein only for outputting said constant voltage (VCC) supply interruption signal generated by said central processing unit after a lapse of said predetermined time required for stop initialization thereof, transistor switching means is installed.

11. An electronic control unit for car according to Claim 8, wherein switching means is installed on the output side of said power source IC, and when said ignition switch is turned off, said central processing unit detects interruption of said power supply from said battery, and by an AND circuit inputting said constant voltage (VCC) supply interruption signal generated by said central processing unit after a lapse of said predetermined time required for stop initialization thereof and inputting an output signal of said delay circuit and by an

output signal of said AND circuit, said switching means installed on said output side of said power source IC is controlled to ON or OFF.